#### PATENT COOPERATION TREATY

## From the INTERNATIONAL SEARCHING AUTHORITY PCT NOTIFICATION OF TRANSMITTAL OF HELLER, EHRMAN, WHITE & McAULIFFE THE INTERNATIONAL SEARCH REPORT Attn. Isacson John P OR THE DECLARATION 1666 K Street, N.W. Suite 300 (PCT Rule 44.1) WASHINGTON, DC 20006 UNITED STATES OF AMERICA Date of mailing (day/month/year) 11/09/2002 Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below 36688-0006 International application No. International filing date (day/month/year) 20/07/2001 PCT/IB 01/01903 Applicant COMPUGEN INC. 1. | X | The applicant is hereby notified that the International Search Report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. International Bureau of WIPO Where? Directly to the 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later). Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

priority date or could not be elected because they are not bound by Chapter II.

Authorized officer

before all designated Offices which have not been elected in the demand or in a later election within 19 months from the

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#### **NOTES TO FORM PCT/ISA/220**

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

#### **NOTES TO FORM PCT/ISA/220 (continued)**

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file ref	erence FOR FURTH	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.				
International application No.	International filing d	International filing date (day/month/year) (		(Earliest) Priority Date (day/month/year)		
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Applicant	A	· · · · · · · · · · · · · · · · · · ·				
COMPUGEN INC.		·				
	Report has been prepared by this Inte opy is being transmitted to the Intern		uthority and is transmitt	ed to the applicant		
רער	Report consists of a total of4	sheets. art document cited in th	is report.			
Basis of the report     a. With regard to the	language, the international search w	vas carried out on the b	asis of the internationa	I application in the		
	it was filed, unless otherwise indicate					
	tional search was carried out on the Rule 23.1(b)).	basis of a translation of	the international applic	cation furnished to this		
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2. Certain cla	nims were found unsearchable (Se	e Box I).				
3. Unity of in	vention is lacking (see Box II).					
4. With regard to the title						
the text is approved as submitted by the applicant.						
the text has	s been established by this Authority t	o read as follows:				
E Mith concert to the artists						
5. With regard to the abst	ract, approved as submitted by the applica	ant				
the text has	s been established, according to Rule month from the date of mailing of this	e 38.2(b), by this Autho	rity as it appears in Bo eport, submit comment	x III. The applicant may, s to this Authority.		
6. The figure of the <b>drawi</b>	ngs to be published with the abstrac	t is Figure No.	1			
X as suggest	ed by the applicant.			None of the figures.		
because th	e applicant failed to suggest a figure	• .				
because th	is figure better characterizes the inve	ention.				

#### ITI **VATIONAL SEARCH REPORT**

ernational Application No PCT/IB 01/01903

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12Q1/68 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12Q Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, BIOSIS, MEDLINE C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. χ WO 98 53319 A (KINZLER KENNETH W 1 - 58; VOGELSTEIN BERT (US); UNIV JOHNS HOPKINS (US)) 26 November 1998 (1998-11-26) the whole document - in particular, e.g., abstract and p.16, 11, 19-25 the whole document χ LOCKHART D J ET AL: "EXPRESSION 1 - 58MONITORING BY HYBRIDIZATION TO HIGH-DENSITY OLIGONUCLEOTIDE ARRAYS" BIO/TECHNOLOGY, NATURE PUBLISHING CO. NEW YORK, US, vol. 14, no. 13, 1 December 1996 (1996-12-01), pages 1675-1680, XP002022521 ISSN: 0733-222X the whole document Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the \*A\* document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report

Form PCT/ISA/210 (second sheet) (July 1992)

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Name and mailing address of the ISA

19 August 2002

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## INTI NATIONAL SEARCH REPORT

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PCT/IB 01/01903

		PC1/1B 01/01903
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X	CROFT LARRY ET AL: "ISIS, the intron information system, reveals the high frequency of alternative splicing in the human genome."  NATURE GENETICS, vol. 24, no. 4, April 2000 (2000-04), pages 340-341, XP002208599  ISSN: 1061-4036 the whole document - in particular p. 341, middle and right columns	1–58
X	ZAMORE PHILLIP D ET AL: "RNAi: Double-stranded RNA directs the ATP-dependent cleavage of mRNA at 21 to 23 nucleotide intervals." CELL, vol. 101, no. 1, 31 March 2000 (2000-03-31), pages 25-33, XP002208683 ISSN: 0092-8674 abstract page 27, right-hand column, paragraph 2 -page 28, left-hand column, paragraph 2 page 30, right-hand column, paragraph 2 -page 31, right-hand column, paragraph 1 figure 7	59
X	VARGA LIA V ET AL: "Antisense strategies: Functions and applications in immunology." IMMUNOLOGY LETTERS, vol. 69, no. 2, 3 August 1999 (1999-08-03), pages 217-224, XP002208684 ISSN: 0165-2478 page 217, right-hand column	60

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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
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Ρ,Χ	ELBASHIR SAYDA M ET AL: "RNA interference is mediated by 21- and 22-nucleotide RNAs" GENES AND DEVELOPMENT, COLD SPRING HARBOR LABORATORY PRESS, NEW YORK, US, vol. 15, no. 2, 15 January 2001 (2001-01-15), pages 188-200, XP002204651 ISSN: 0890-9369 the whole document	59		
A	MIRONOV ANDREY A ET AL: "Frequent alternative splicing of human genes" GENOME RESEARCH, COLD SPRING HARBOR LABORATORY PRESS, US, vol. 9, no. 12, December 1999 (1999-12), pages 1288-1293, XP002205853 ISSN: 1088-9051 cited in the application the whole document	1-58		
A	GAUTHERET DANIEL ET AL: "Alternate polyadenylation in human mRNAs: A large-scale analysis by EST clustering." GENOME RESEARCH, vol. 8, no. 5, May 1998 (1998-05), pages 524-530, XP002208602 ISSN: 1088-9051 the whole document	1-58		
E	WO 01 57252 A (AEOMICA INC) 9 August 2001 (2001-08-09) page 8, line 9 - line 14 page 8, line 24 -page 9, line 8 page 35, line 24 -page 62, line 26 page 75, line 5 - line 25 page 76, line 5 -page 86, line 2 figures 5,11-13 examples 1-4 claims 1-14,16-30,35-38	1-58		

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Information on patent family members

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